

CLAIMS

What is claimed is:

1. A reflector lamp comprising:
a reflective shell having a base end, a wall defining a cavity surrounding an axis extending towards a field to be illuminated, the wall having an edge encircling and thereby defining a light opening leading from the defined cavity generally towards the field to be illuminated;
an electric lamp capsule located in the defined cavity, the capsule having electric leads extending through the base end for electrical connection;
a lens sealed to the shell to cover the light opening and enclose the lamp capsule in the defined cavity, the lens having a domed structure with a maximum (outer) axial height greater than one half the maximum (outer) transverse radius; and
an electrical and mechanical coupling coupled to the base end for electrical coupling of the electrical leads and mechanical support of the reflector lamp.
2. The reflector lamp in claim 1, wherein the lens is approximately hemispherical.
3. The reflector lamp in claim 1, wherein the reflective shell is at least partially metallized to reflect light from the lamp capsule in the direction of the defined opening.
4. The reflector lamp in claim 1, wherein the lens is clear.
5. The reflector lamp in claim 1, wherein the lens is translucent.
6. The reflector lamp in claim 1, wherein the lens is faceted.
7. The reflector lamp in claim 1, wherein the lens includes coaxial circular lens elements.

8. The reflector lamp in claim 1, wherein the reflector has an interior surface defining a section of a parabola of revolution.
9. The reflector lamp in claim 1, wherein the reflector has an interior surface defining a section of an ellipse of revolution.
10. The reflector lamp in claim 1, wherein the reflector has an interior surface with light dispersing facets.
11. The reflector lamp in claim 1, wherein axial distance from the base end to the edge is approximately equal to a standard interior axial distance from a socket to a fixture opening, whereby the domed lens extends substantially beyond the fixture opening.